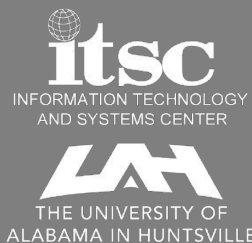




FY18 Plans for DAPPeR and FCX

Ajinkya Kulkarni

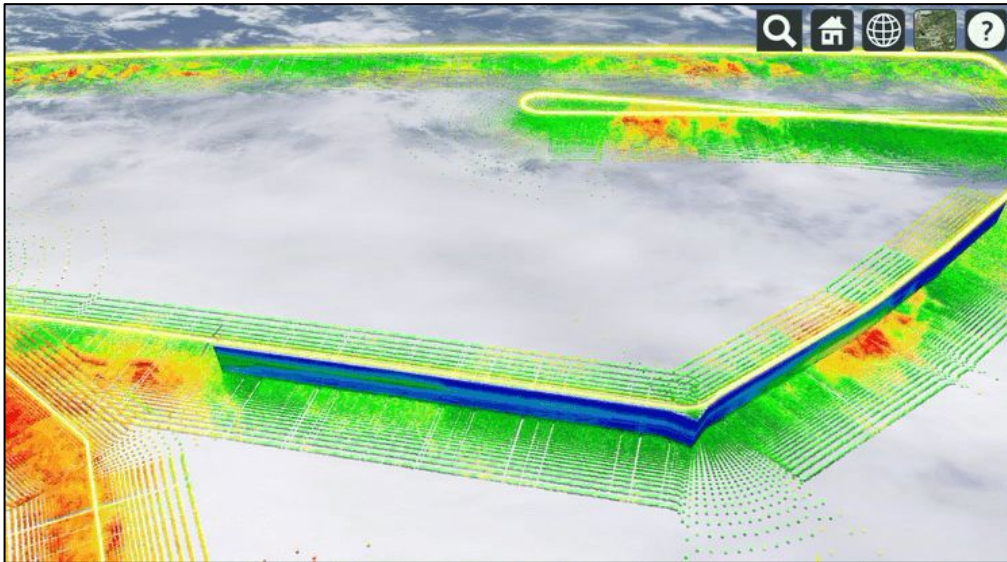
2017 GHRC User Working Group Meeting
Sept 26-27, 2017



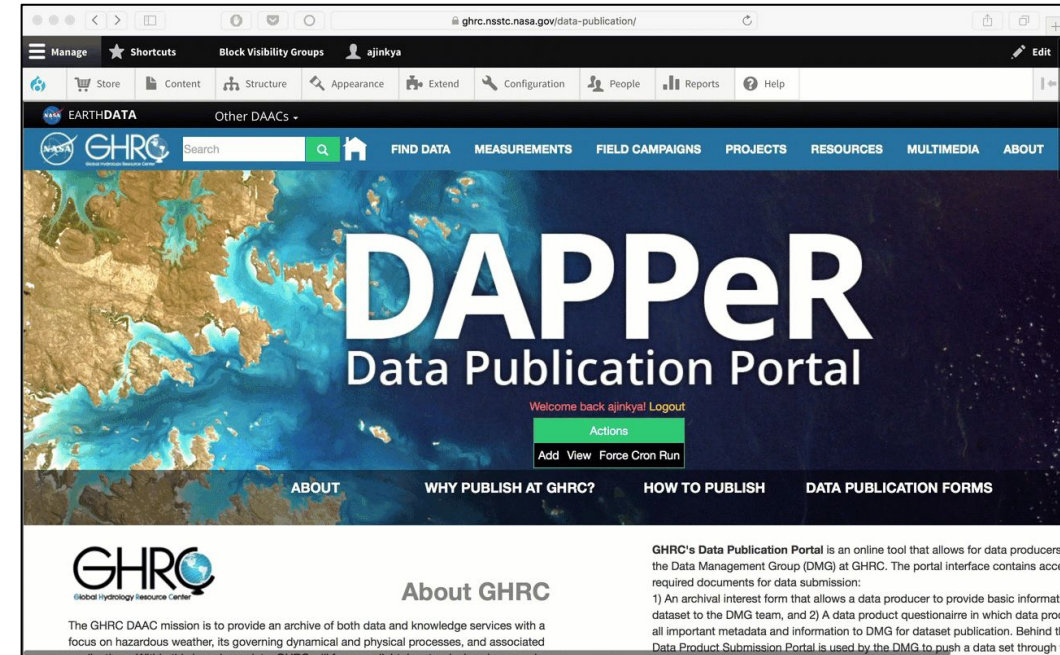
Outline

FY18 plans for:

- Data Publication Portal (DAPPeR) improvements
- Field Campaign Explorer (FCX) improvements



<https://ghrctest.nsstc.nasa.gov/fc-explorer/>

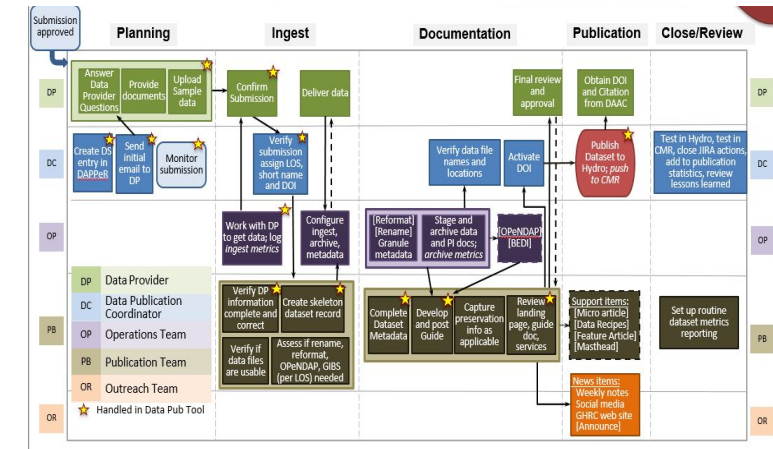
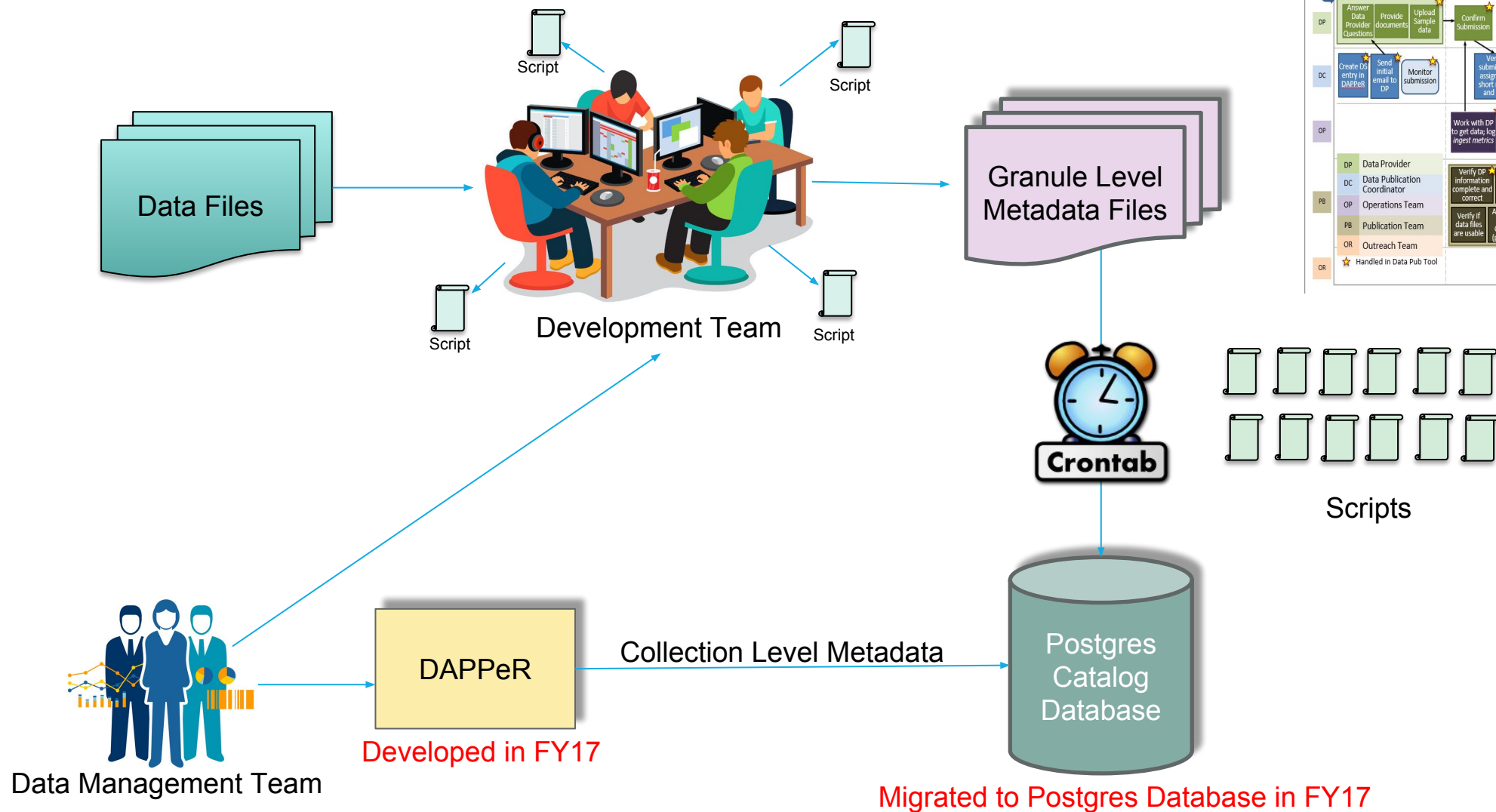


<https://ghrc.nsstc.nasa.gov/data-publication/>

DAPPeR FY18 Plans

Current Semi-Automated Data Publication Workflow (as of FY17)

Based on ORNL DAAC's Semi-Automated Ingest System (SAuS)



Result of Implementing DAPPeR Based Workflow → Improved Efficiency



Happy DAAC Manager

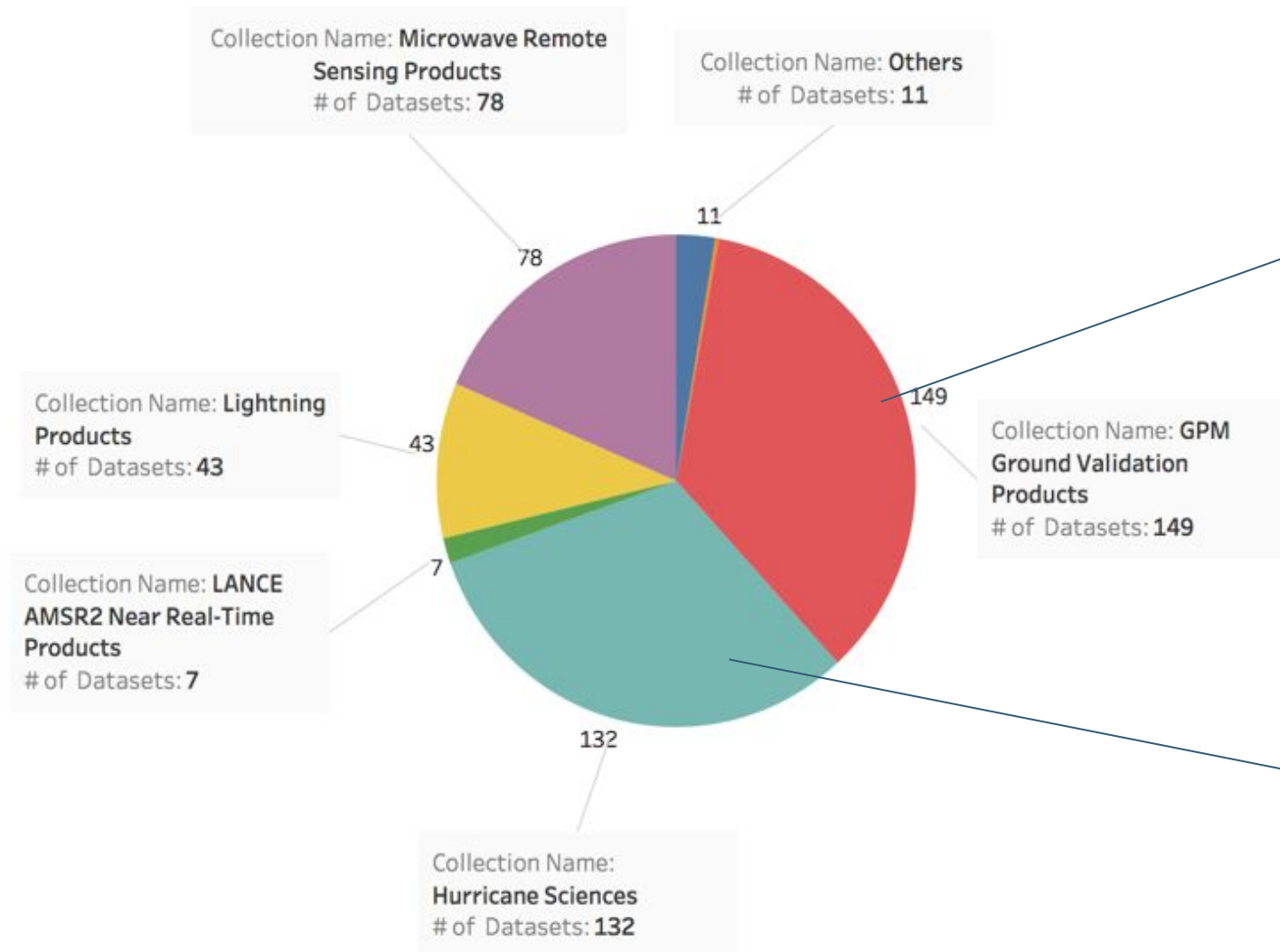
Question - can we do even better?



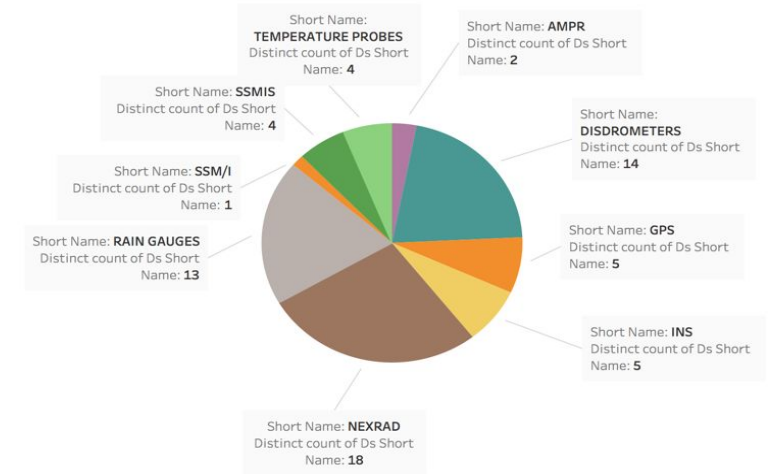
Development Team

GHRC Data Holdings by Collections

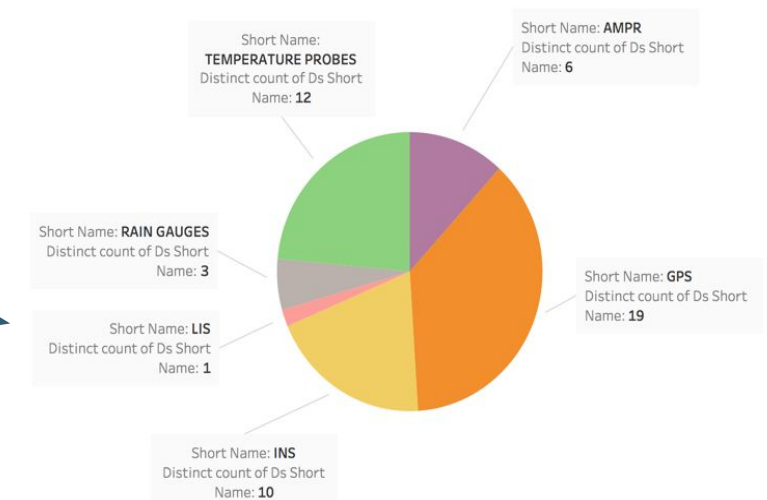
of Datasets by Collection



of Datasets Published By Instrument - Filter by Collection : GPM Ground Validation Products

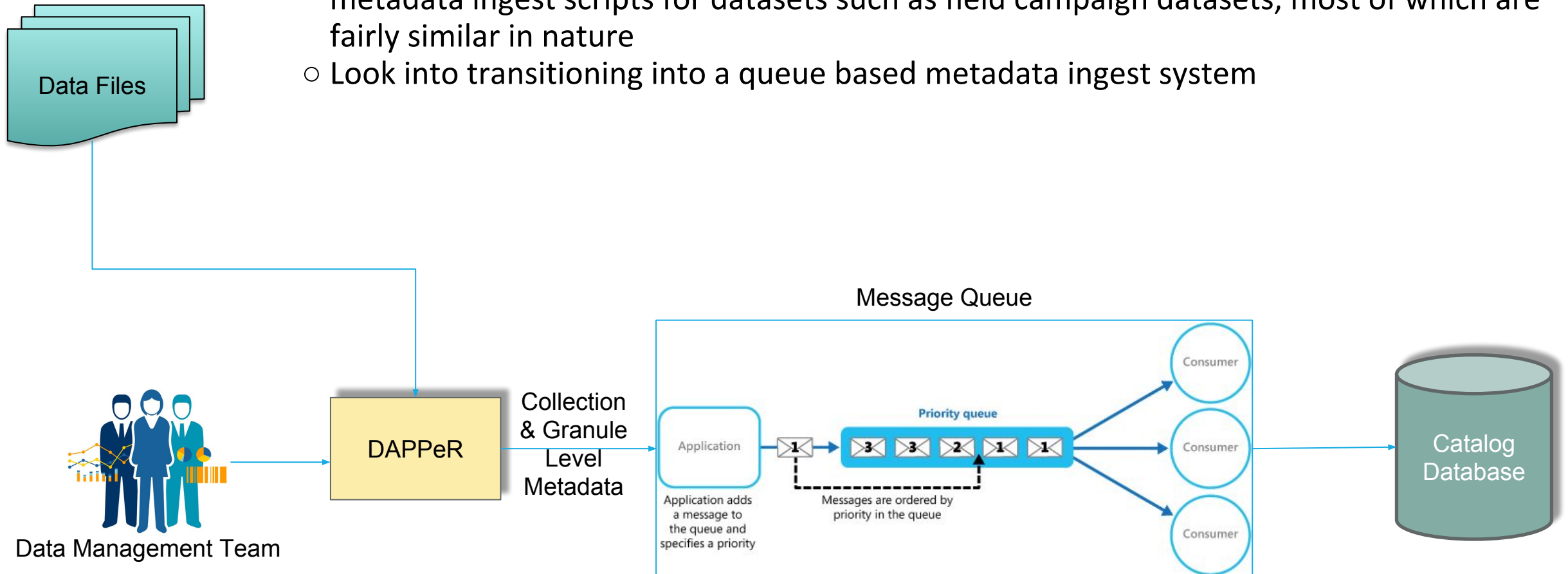


of Datasets Published By Instrument - Filter by Collection : Hurricane Sciences



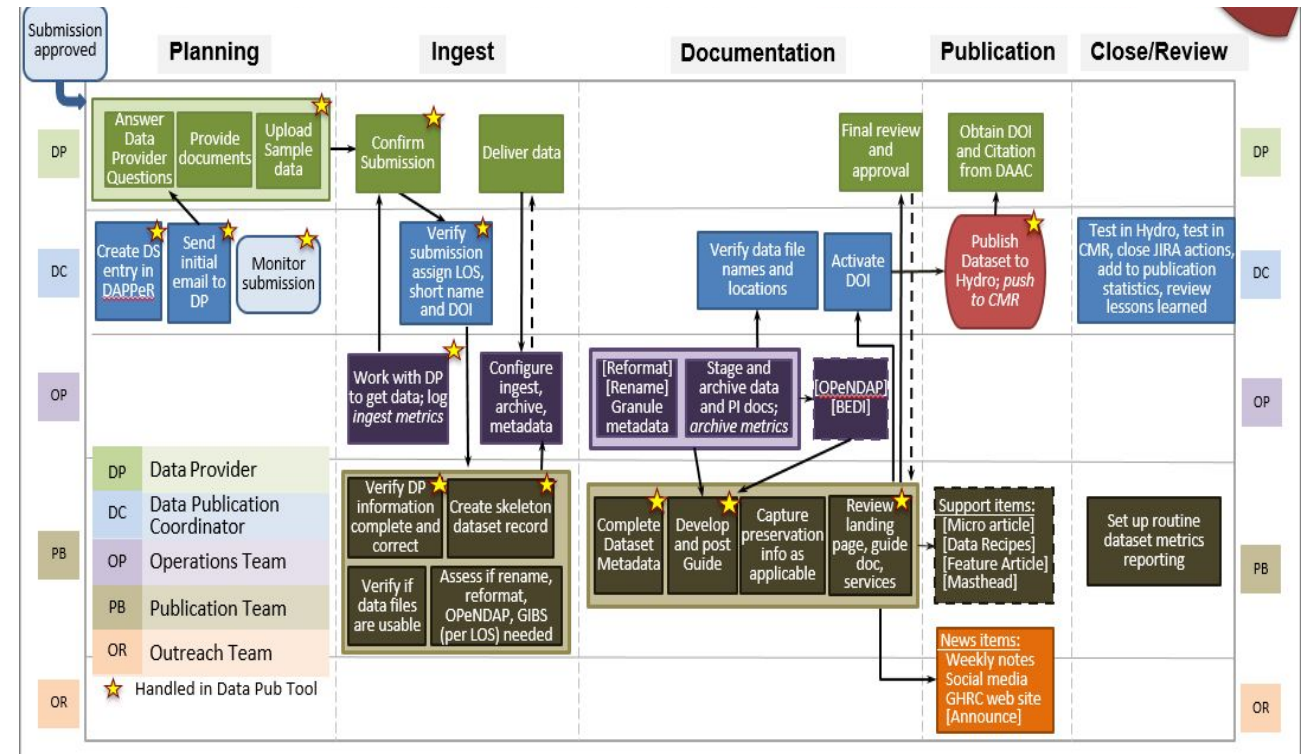
Semi-Automated to Fully-Automated Data Publication System

- Work towards fully automating data publication workflow process
 - Look into developing a DAPPeR module to extract, map and auto generate granule level metadata ingest scripts for datasets such as field campaign datasets, most of which are fairly similar in nature
 - Look into transitioning into a queue based metadata ingest system

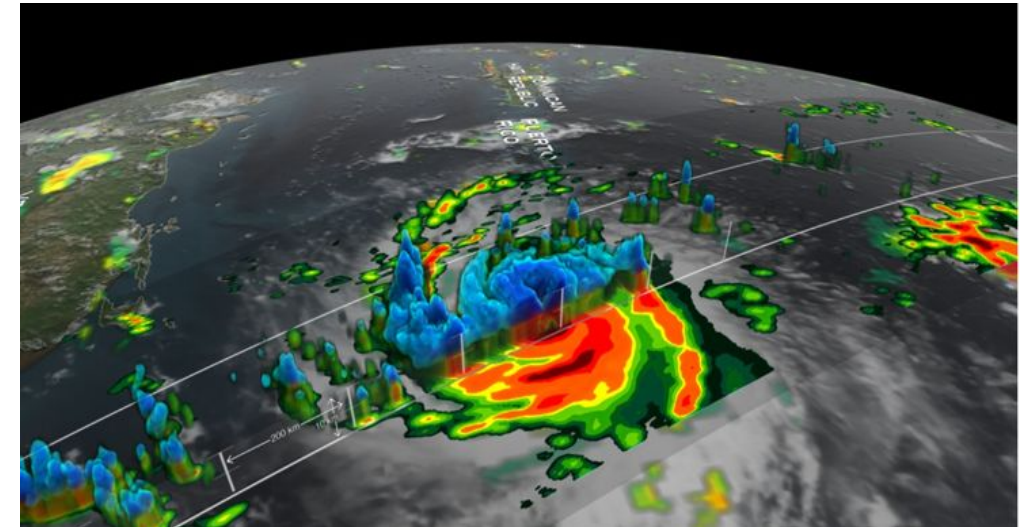
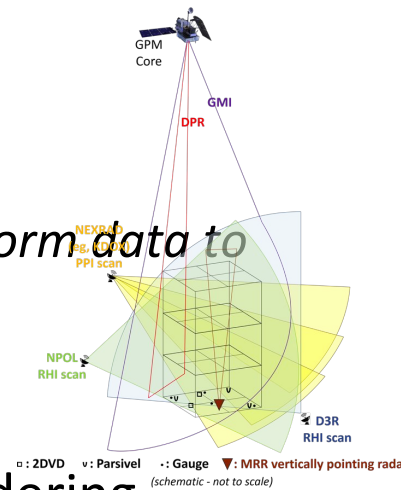


Other Features

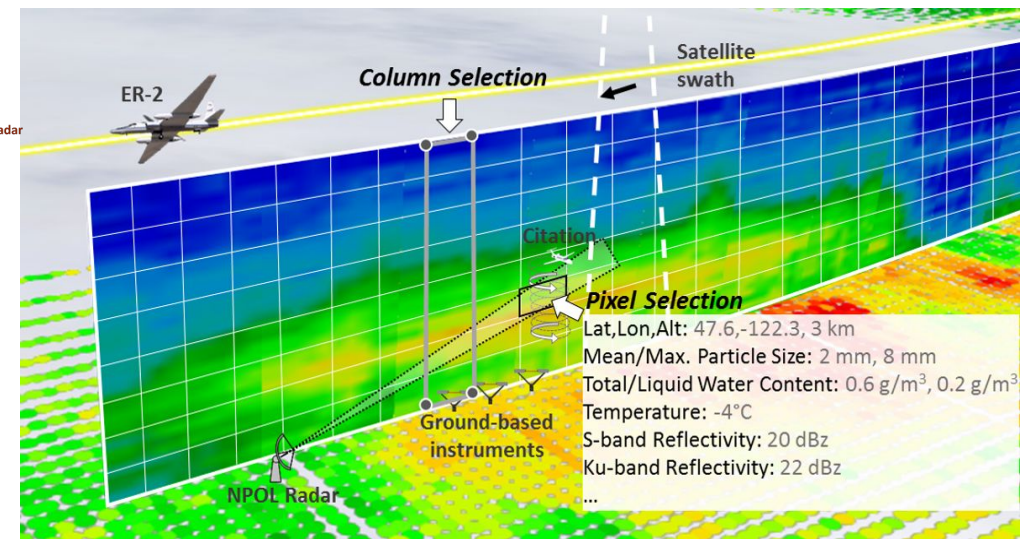
- Automated email notifications
 - Form submissions
 - State changes
 - Error messages
- A dataset specific email address (e.g ghrc-pubs+dataset1@uah.edu) to track/organize conversions in a centralized location
- Detailed metrics collection for automated reporting and identifying the bottleneck or holdup



- Aligning the work with VISAGE project
VISAGE: Visualization for Integrated Satellite, Airborne and Ground-based data Exploration
 - AIST 2016 Award - 2 year project, starts from October 2017
 - PI : Helen Conover, UAH
 - Co-I : Manil Maskey, MSFC
 - Collaborators: Walt Petersen and Dave Wolff
 - Targeted Data Products: SIMBA
SIMBA: System for Integrating Multi-platform data to Build the Atmospheric column
- Explore ideas-
 - Interactive web based 3D volume rendering
 - Pixel and column selection
 - Analytics functions
 - 3D fly-through pre-rendered videos
- Participate in ESDS Vertical Profile Visualization WG



3d volume rendering



Pixel and column selection



Thank you!

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